COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

HENDERSON-UNION RURAL ELECTRIC COOPERATIVE CORPORATION, INC.)		
)	CASE NO.	92-416
ALLEGED FAILURE TO COMPLY WITH COMMISSION REGULATION 807 KAR 5:006) 6)		

ORDER

Henderson-Union Rural Electric Cooperative Corporation, Inc. ("Henderson-Union"), a Kentucky corporation which engages in the distribution of electricity to the public for compensation for lights, heat, power, and other uses, and which was formed under KRS 279.010 to 279.220, is a utility subject to Commission jurisdiction. KRS 278.010; KRS 279.210.

KRS 278.280(2) directs the Commission to prescribe rules and regulations for the performance of services by utilities. Pursuant to this statutory directive, the Commission promulgated Commission Regulation 807 KAR 5:006, Section 26, which requires electric utilities to notify the Commission of any accident which results in injury within two hours of the discovery of the accident by the utility.

Commission Staff has submitted to the Commission an Electrical Utility Accident Investigation Report dated August 19, 1992, appended hereto, which alleges that:

- 1. On June 11, 1992, Steve Cote, an employee of Meuth Construction Company, was unloading brick at a construction site of Highway 12 approximately 4 miles east of Henderson, Kentucky. During the work, the boom of the truck Mr. Cote was using came into contact with an overhead distribution line belonging to Henderson-Union, resulting in injury to Mr. Cote. Henderson-Union learned of the accident at 4:15 p.m. (CDT) but did not notify the Commission of the accident until 5:18 p.m. (CDT), June 12, 1992.
- 2. As a result of its failure to report the accident within two hours of discovery, Henderson-Union is in probable violation of 807 KAR 5:006, Section 26.

The Commission, on its own motion, HEREBY ORDERS that:

- 1. Henderson-Union shall submit to the Commission within 20 days of the date of this Order a written response to the allegations contained in the Electrical Utility Accident Investigation Report.
- 2. Henderson-Union shall appear at a hearing to be held on November 19, 1992, at 10:00 a.m., Eastern Standard Time, in Hearing Room 2 of the Commission's offices at 677 Comanche Trail, Frankfort, Kentucky, for the purpose of presenting evidence concerning the incident which is the subject of the Electrical Utility Accident Investigation Report, specifically the alleged violations of Commission Regulation 807 KAR 5:006, Section 26, and be prepared to show cause why it should not be subjected to the penalties of KRS 278.990 for its alleged failure to comply with Commission Regulation 807 KAR 5:006, Section 26.

- 3. Henderson-Union shall appear at an informal conference to be held on October 26, 1992, at 1:00 p.m., Eastern Daylight Time, in Conference Room 1 of the Commission's offices at 730 Schenkel Lane, Frankfort, Kentucky.
- 4. The Electrical Utility Accident Investigation Report dated August 19, 1992 is hereby made a part of the record of this case.

Done at Frankfort, Kentucky, this 28th day of September, 1992.

PUBLIC SERVICE COMMISSION

Chairman

Vice Chairman

ATTEST:

Executive Director

ACCIDENT NBR:00004 INVESTIGATION NBR: 9201000 UTILITY ID: 2100 HENDERSON-UNION R.E.C.C.

ACCIDENT DATE:06/11/92 15:49

DATE UTILITY LEARNED OF ACCIDENT: 06/11/92 16:15

DATE REPORTED: 06/12/92 17:18

INV BEG DATE: 06/16/92 INV END DATE: 06/16/92

DATE SUMMARY WRITTEN REPORT RECEIVED FROM UTILITY: 06/12/92

ACCIDENT REPORTED BY:

John E. Newland, P.E. Henderson-Union RECC 5402 Old Corydon Rd. P.O. Box 18 Henderson, KY 42420-0018 WORK PHONE: (502)826-3991

LOCATION OF ACCIDENT SITE:

Henderson-Union Map #10-72-23 4
miles east of Henderson, KY, off Hwy
12
Henderson, KY
COUNTY:Henderson PHONE:

CUSTOMERS OUT OF SERVICE: None

DESCRIPTION OF ACCIDENT:

Mr. Steve Cote, an employee of Meuth Construction Co., was unloading brick at a construction site off Hwy. 12 approximately 4 miles east of Henderson, KY, when accident occurred. Allegedly, Mr. Cote inadvertently pushed the wrong button on his handheld control and the boom of his truck came into contact with a 7,200 volt overhead distribution line belonging to Henderson-Union RECC.

CORRECTIVE ACTIONS:

Single phase line was reparied and put back into service. See interruption report.

VICTIMS:

NAME: Steve Cote

SEX: M AGE: 23 CONDITION: injured EMPLOYER: Meuth Construction Co.

INJURIES: Minor burns on both hands and a minor burn on one foot.

PAGE 08/19 ACCIDENT NBR:00

PERSONS ASSISTING IN THE INVESTIGATION: NAME

EMPLOYER

Charles Tucker-Dist. Manager Kenny Liggett-Servicemane Ronald D. Hallmark-Const. Supt. Henderson-Union RECC T.R. Jacobs-System Dispatcher Henderson-Union RECC

Henderson-Union RECC Henderson-Union RECC

SOURCES OF INFORMATION:

John Newland, Charles Tucker - Kenny Liggett-Ronald Hallmark-T. Jacobs all Henderson - Union RECC employees. An onsite investigation by - John Land, PSC Engineering Staff.

PROBABLE VIOLATIONS OF COMMISSION REGULATIONS:

NBR OF VIOLATIONS: 1

INVESTIGATION NBR: 92 010 00 VIOLATION NBR: 001 FINDING PER REGULATION: 807 KAR 5:006 Sec. 26 Henderson-Union RECC did not report this accident within (2) hours following discovery by means outlined in 807 KAR 5:006 Sec. 26.

RECOMMENDATIONS PER FINDING:

It is recommended that the Commission consider action in accordance with KRS 278.990, due to Henderson-Union RECC's probable violation of 807 KAR 5:006, Sec. 26.

PAGE 08/19 ACCIDENT NBR:00

LINE CLEARANCES

A. At Point Of Accident	ductor to ground elevation: onductor to ground elevation: tions conductor to ground elevation: ductor to structure: t Point Of Span ductor to ground elevation: conductor to ground elevation: 23'-2 1/2" 15'-0" 15'-0" 15'-0"	
Phase conductor to ground elevation: Neutral conductor to ground elevation: Communications conductor to ground elevation: Phase conductor to structure:	19'-9" 14'-7"	15'-0" 8'-0"
B. At Lowest Point Of Span		
Phase conductor to ground elevation: Neutral conductor to ground elevation: Communications conductor to ground elevation:	19'-3 1/2"	15'-0"

C. SPAN LENGTH: 230.00 VOLTAGE OF LINE OR FACILITIES: 7200 V

YEAR THE LINE OR FACILITIES WERE CONSTRUCTED: 1990

DATE LAST INSPECTED BY UTILITY:11/19/90

DATE: 06/16/92 TIME: 12:35

APPROXIMATE TEMPERATURE: 91

MEASUREMENTS MADE BY: John Land, PSC, K. Liggett & R. Hallmark/Henderson URE

SUBMITTED BY: John W. Land

ACCIDENT AND TROUBLE REPORT FORM

	•		•
TODAY'S DATE	11/11/92		TIME 51/8 PM 5
TODAY'S DATE	<u> </u>		
			New Land P.E.
	 -		
•			
		· · · · · · · · · · · · · · · · · · ·	· ~ ~ ~
	PHONE NO: /	-800- 844.	- 4832
			,
ACCIDENT DESCRIP	TION: 11 Loom t.	tuck owner	by mench Construction
middenin la	1 Stive Oute Car	me into 12	start with in 1200
	1 1 1		11
7 - 0 - 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	7111-0		· · · · · · · · · · · · · · · · · · ·
		5	
	4/ 01.5		
// /	- 1/		
S summer Br	wente RF#3 /	Fucleson 1	Ky UCC.# 10-72-23
TIME OF OCCURREN	ICE: Annot 15'4	19P.M. EST.	6/11/92
	73		
	/		
TROUBLE DESCRIPT	ION: Since &	line down.	
			
		Fe-T	
TIME OF RESUMPT	ION OF NORMAL SERV	ICE: 16:25	P.M.CST.
NUMBER OF CUSTON	MERS AFFECTED:	<u> </u>	7
		SIGNED	toland free
	•	DATE //	112/92
			, <u></u>

HIACHAENT

FAX TRANSMITTAL SHEET

DATE: 6-12-92
PAGES RANSMITTED (INCLUDING THIS SHEET):
TO: JOHN LAND COMPANY: KY PSC
FAX 18th 502 564 7279
FROM: John Newland
FAX AUMBER: 502-021 3799
SUP 'FCT:
ML JAGE:

ムー/Z-92 PRELIMINARY REPORT ACCIDENT

6-11-92 DATE 94K 1550 hrs ファルフシ HURECC MAP NO 10-72-823 PLACE HWY BIZ &MILES EAST OF HENDERSON (APPROX.) SAMMY BROCATO 2+3 HEND KSON

WHO

STEVE COTE - EMPLOYEE OF MEUTH CONSTRUCTION CL AGE 23 (APPROX) 1712 PESTEET ADDEESS HENDERSON Home PHONE 826-6802

NHAT

MR COTE WAS OPERATING A BOOM TRUCK, UNLOADING BRICK. HE WAS ON GROUND USING CABLE STYLL REMOTE (HE MISTAKEDLY PUSHED BUTTON TO MAKE BOOM GO IN DIRE TO CONTACT 7200 VOLT 14, GACSE PRIMARY. THE BOOM, TRUCK BURNED THE PRIMHRY WIRE INTO. THE PROTECTIVE DEL WAS Z'2 MILES AWAY. IT IS ASOLF A TYPE L. KYLE HEAVY DIL CURCUIT RECLOSER. THE RECLISER LOCKED OPEN AND WE RECEIVED CALLS FROM CONSUMERS ON THE LINE. WHEN WE ARRIVED MR. COTE SAID HE WAS ALRIGHT. WE ! HE I TO SEE LOCTOR. WE TOOK HIM TO A FAMILY MEMBE TOUR HIM TO A DOCTOR AT THE EMERGENCY ROOM, COMMUNIT METHODET HUSPITAL.

HEWAS LEFT OVERNIGHT & BELEASID FRIDAY A.M. HEWA TO RETURN TO DOCTOR THESDAY, 6/16 TO EMANE FOOT EXAMINED HAS MINOR BURNS ON BOTH HANDS & A MINOR BURN ON O WE HAVE TAKEN PICTURES AND WILL COMPLETE DUR REPORT THE NEXT 2 WEEKS. DUR CLEPRANCE WAS 20'-1" to NEUTLA Z3'-11" TO OUR PRIMARY WE FEEL THE RECLOSER OPERATE. PROPERLY.

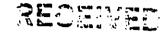
JOHN NEWLAND WILL BE OUT OF THE OFFICE THE WEEK OF I IL CHAPLES TUCKER

HENDERSON UN 6 CCC 1-800-844-4832 FRX 502 826 3999



-enderson-union Rural Electric Cooperative Corporation
 1402 Cta Convaon Rodal P. O. Box (d. Henderson), KY (42420-0018)
 502) 826-3991 Toti Free in KY (1-800-844-4832)

June 25, 1992



... 9 : 1992

DIVIDICA OF BILLITY

ENGINEERING & SERVICE.

Kentucky Public Service Commission 730 Schenkel Lane P. O. Box 615 Frankfort, Kentucky 40602

Attn: John Land

Re: Report of Public Contact - June 11th

Enclosed you will find our Final Report and other documentation concerning this incident. Included is:

Final Report
Interruption Report
Dispatcher's Memo
Staking Sheet for Original Line Construction - W. 0. #25123
Area Grid Sheet identifying pole and location - Grid 10-72

We understand you received copies of our photographs during your visit on June 16th.

Please call if we can provide other information. Thank you for assisting with our investigation.

John E. Newland, P. E.

Director of Engineering and Operations

ab

Enclosure



Henderson-Union Rural Electric Occiderative Corporation 5402 Ctd Carvaon Roda (P. D. Box (B. Henderson, KY) 42420-0018 502) 826-3991 | Tail Free in KY 1-500-844-4832

ACCIDENT REPORT

Date:

June 11, 1992

Time:

1550 hours

Place:

HURECC Map No. 10-72-23

Highway 812 4 miles East of Henderson (approx.)

Property: Sammy Brocato

Route 3

Henderson, KY

aho:

Steve Cote - Employee of Meuth Construction Company

Age: 23 (approx.)

Address: 1712 First Street

Henderson

Home Phone: 826-6802

What:

Mr. Cote was operating a boom truck, unloading brick. He was on ground using cable style remote control he mistakely pushed button to make boom go in direction to contact 7200 volt 10, 4 ACSR primary. The boom of the truck burned the primary wire into. The protective device was 2½ miles away. It is a type L, Kyle heavy duty oil circuit recloser. The recloser locked open and we received calls from consumers on the line.

When we arrived Mr. Cote said he was alright. We insisted he go to see a doctor. We took him to a family member, who took him to a doctor at the Emergency Room, Community Methodist Hospital.

He was kept overnight and released Friday a.m. He was told to return to doctor Tuesday, 6/16 to have foot examined. He has minor burns on both hands and a minor burn on one foot.

We have taken pictures and will complete our report within the next 2 weeks. Our clearance was 20'-1" to neutral and 23'-11" to our primary. We feel the recloser operated properly.

We have been informed Mr. Cote is back at work with no apparent problems.

This section of line (Section 0544) was inspected in the spring of 1990 and is scheduled for inspection in January 1993.

John E. Newland
John E. Newland

INTERRUPTION REPORT

	Serial No.
Time Reported 15:49 Report	od By: James Ba Canally
Report Received By:	ed By: James Ba Canally Assigned To: 12- Kenny Limit Total Time 40 men
Time Off: 15:45 Time On: 16	Total Time 10 men
Location or Area Affected: 2-29-6	
Number of Members Affected:	Consumer Hours Off: Sks Down.
Source Mouth Black company	gat a brown truck into the line
white unlarling blacks of	gat a boom truck into the line 10-22-5 - burned 1 hine clower
	#3
Action Taken: Reserved line	
Date: 4-1/-98 Signe	d: 9RP
•	Title

TO: JOHN NEWLAND ON (DATE/TIME) OG/ 11/ 92 :

ON G-11-92 AT LOCATION 10-72-23 A TRUCK HAULING ERICKS WHICH WAS BY MEUTH CONSTRUCTION WAS UNLOADING BRICKS WHEN IT CAME IN CONTACT A SINGLE PHASE 7200 VOLT LINE. THE FOUR ACSR PRIMARY WIRE WAS BURDOWN. THE DRIVER WAS BURNED ON BOTH HANDS AND ONE FOOT. THE TRUCK RECEIVE SOME DAMAGE. I RECEIVED THE FIRST REPORT OF THE OUTAGE AT 15:45 FROM MRS.JAMES MCCONATHY. HER ACCOUNT NUMBER IS 09-79-06. K LIGGETT WAS DISPATCHED TO THE TROUBLE SITE WHERE HE OPENED THE TA RESTORED POWER TO THE REST OF THE CONSUMERS AT 16:25. AFTER I RECEIVE FIRST REPORT OF LIGHTS OUT A ROGER MEUTH CALLED AND SAID THAT HIS TRUCKS HAD HIT OUR LINE BUT THAT THE DRIVER WAS NOT HURT AND TRUCK WAS OK.

FROM: TERRELL R.JACOBS

ENGINEERING DEPT. SYSTEM DISPATCHER



Engineering notes

ZO'-O Cl. GRID 10-72-9TC-385 Apparamen

—— Clean-Up Notes From —— Inventory and Inspection	DATE O NOV	108504
Contract Work - H.U.R.E.C.C.	PROJECT	
(502) 826-3991	LOCATION	
	CONTHACTOR	OWNER
Sicion Commercias	WEATHER	TEMP. Sat
	PRESENT AT SITE	
JPD_	1 /4	
Recher 100 By except 8.	stime Sh_	145
THE FOLLOWING WAS NOTED: 2 POLES AND		
Rechert 100 por por 58.5 THE FOLLOWING WAS NOTED: all is 05 2 por 2 division of 2 por	avs	
BOLE 43: OK		
POLE 41. OK		
POLE NO. OK		
Pole ST: OK.		
OLE 11: Complete imp I track.	Rd M H EC &	141
He 12: 24tom numbertare Tix 1	entros to main	Har Hendeste
Pole 14: Tag rienten mach la	with born (Dist	وروائم ورواية المراز النظام المراز
Showken junge in top it?	Letor - more cu	in recover to 47 3
6 6 12' X-000 CUT 14 CTITE		
POKP: OK		10000
Pale 20: OK		·- · -
POLEZZ. OK		
MEZZ OK		
Pole 34: X-orn out if cont	·	
2-68 OK		
Bled: ellend pumar from top	no Las & non	Vine no Lead
Pole 13": OK	PRIMAL LA PAGIA	THE NEW POL
Pale 14: OK		-
PLEIS: OK		

Clean-Up Notes From	DATE	JOE NO.
Inventory and Inspection		908501
Contract Work - H.U.R.E.C.C.	PROJECT	
	LOCATION	
(502) 826-3991		
	CONTRACTOR	· Owner
	WEATHER	TEMP. 3 at
	PRESENT AT SITE	, 3t
	<u>Sh</u>	2 44 5
E FOLLOWING WAS NOTED:		-
7-68 BE16: OK	<u> </u>	
SEIG: OK		
22:7: OK	·	
2618: OK		
BLEP OK		
1		
LE 20: OK		
BLE ZI! Showten may be top 4-	suffer to	Top runtage ?
Mar Her Henrell		
de 22: Shorten junger on topio	شهره که در بر کمه	
7 .	- Let Dilie	
1/5 23: OK		
The 1: shorten jumine on the	erock Since It	venin mauring
OCENIE INVITABLED SIEE DAY CEN		moutes inger
		· · · · · · · · · · · · · · · · · · ·
230 lean rented (1/ots: 22	" Clesuade of p	CIDITAY WELL OF WA
2/5.2: OK	· · · · · · · · · · · · · · · · · · ·	
1/E:53: OK:		
8/E 5: QK		
Ble 8: extent tox newtent to	mainteir mente	ak ! Shopton jun
to xtvener bushing		, , , , , , , , , , , , , , , , , , , ,
	•	
0/5:11:0V		
Ble 13: entend top mention to	mine less me. In	
Ble:11: OK:	win hat route	a/

וארעסומו והו ומו האו האו והאו האו

Clean-Up Notes From	DATE	.CB NO.
Inventory and Inspection	•	909504
Contract Work - HURECC.	PHOJECT	
	LOCATION	
(502) 826-3991	CONTRACTOR	Sween
	WEATHER	
		TEMP. Pat
	PRESENT AT SITE	
	5% 3	+2 5.
DLLOWING WAS NOTED:		
/a. , ,	<u> </u>	
TE 19: estend tox receive to	23.00 x 2012 7 84-78-12	·
20:	······	
24' SAME AS # 9 36	ov <u>e</u>	
E 27. OK		
ESA! OK		
<i>i</i>	1 20-9 6/1000	
7 = 7	20-7 (1.0)	12 601 MATE 51.00
EL OK	20-7 (1-5) =	
ESS: CK	20-7 (1-9)	
7 = 7	20-7 (1-9)	260/817
ESS: CK	20-7 (1-9)	2601817
ESSICK ESSICK ESICK		
ES: OK ES: OK ES: OK ES: After former in inch	icse (See 1916"A")	make 10 So
E = : CK. E = : CK. E = : CK. E = : OK. E = : After for under the formatte (outer formatte)	icua (Se Phila")	make 10 So
ES: OK. ES: OK. ES: OK. ES: Attac production on tap (outer for the tap) LETA + not worked, see tak	icua (Se Phila")	make 10 Co
ES: OK. ES: OK. ES: OK. ES: Attac pour and provide for the formation on tap (outer for the formation). LE-13: OK.	icua (Se Phila")	make 10 Co
ES: OK. ES: OK. ES: OK. ES: Attac production on tap (outer for the tap) LETA + not worked, see tak	icua (Se Phila")	make 10 Co
ES: OK. ES: OK. ES: OK. ES: Attac pour and provide for the formation on tap (outer for the formation). LE-13: OK.	icua (Se Phila")	make 10 Co
ES: OK. ES: OK. ES: Attac por una propriate por connection en tap (outer por en tap) LE-13: OK. LE-13: OK. LE-13: OK. LE-13: OK. LE-13: OK.	icua (Se Phila")	muke 10 Co
ES: OK. ES: OK. ES: Attac portage (outer for land) Connection on tap (outer for land) LE-A+ not worked, see stake LE-13: OK. LE-13: OK. LE-15: OK. LE-15: OK. LE-15: OK.	icua (Se Phila")	muke 10 SS
ESE: OK. Connection on tap (Outer for the form) LE-A+ not worked, so stake LE-13: OK. LE-14: OK. LE-15: OK. LE-15: OK. LE-15: OK. LE-16: OK.	icua (Se Phila")	muke 10 SS
ESE: OK. ESE: OK. ESE: OK. ESE: OK. ESE: OK. ESE: OK. Connection on Tap (Outro) LE-A+ not worked, so tak. LE-13: OK.	icua (Se Phila")	muke 10 Co
ES: OK. ES: OK. ES: OK. ES: Attac pour and provide for the formation on tap (outer for the formation). LE-13: OK.	icua (Se Phila")	make ne so
ES: OK. ES: OK. ES: OK. ES: OK. ES: OK. Connection on tap (Outer 1) LE-A+ not worked, see Hak. LE-13: OK.	icua (Se Phila")	muke 10 SS

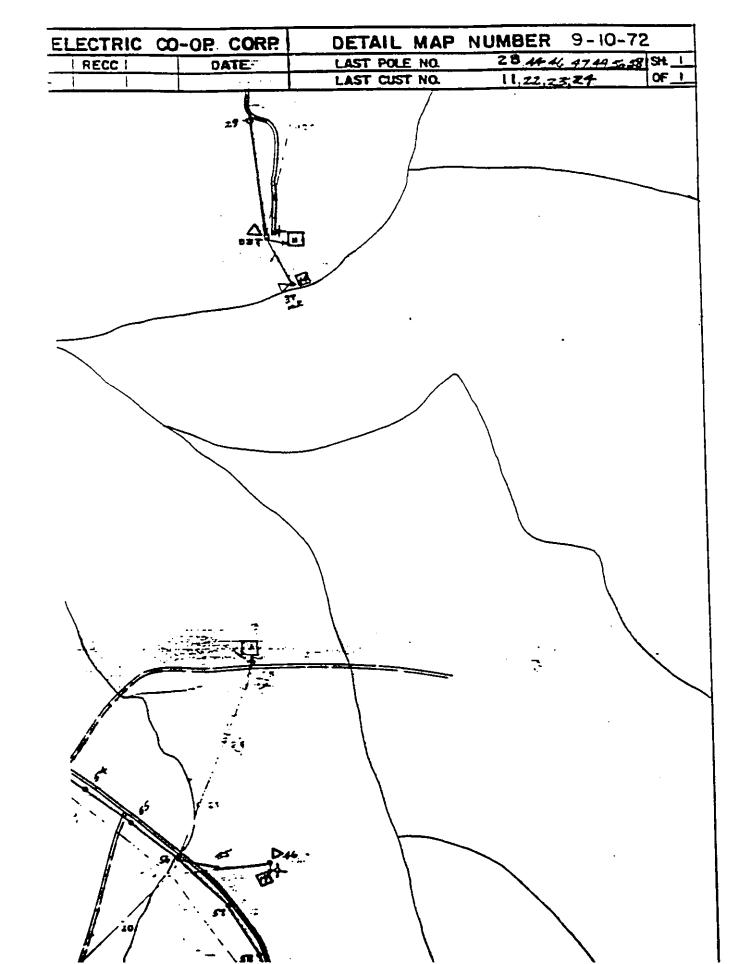
Clean-Up Notes From	DATE	· QM &P
Inventory and Inspection		903504
Contract Work - H.U.R.E.C.C.	PROJECT	7
	LOCATION	
(502) 826-3991	CONTRACTOR	OWNER
	WEATHER	te e
	PRESENT AT SITE	
· /	TL 4	
V FOLLOWING WAS NOTED:	——————————————————————————————————————	7
	<u> </u>	
Bleia: OK		
315 D' Line up saddhwashe	e Ab' bakfill	
LE 10: not enough stuples -	<i>,</i>	
16.11:06	 	
1		
le 51! SAME AS 10 HONE		- 10 pm
le 15: Move KII away from pole	and Keip 34 1-1	7 / then 3
Sadwarz to grd jumpers		
36 52 tigitheringing		·····
ote: Ill ald pale the be	Bullet Care	<u> </u>
ale 53 1 out of plans		
		
8/=54:0H		· · · · · · · · · · · · · · · · · · ·
6/25: OK		
81256: OK		
8645: OK		
RIS 57: notenzado stades: 7	Tables One Kin J. Bo	binnik NA A
12.57: not enough staples; The 58: more 12" closer to Ro	Children S	Super Line
182	or (on ot King)	(
lego, ok		(19:
31.91.0K		
81: 45° DK.		
de 2' Pemore El-2, FI-2	host dal adall	for Here
	THE WALL	III LACER
		
PRES TO	າສາຕສາເກ	\mathbf{D}) \mathbf{R}

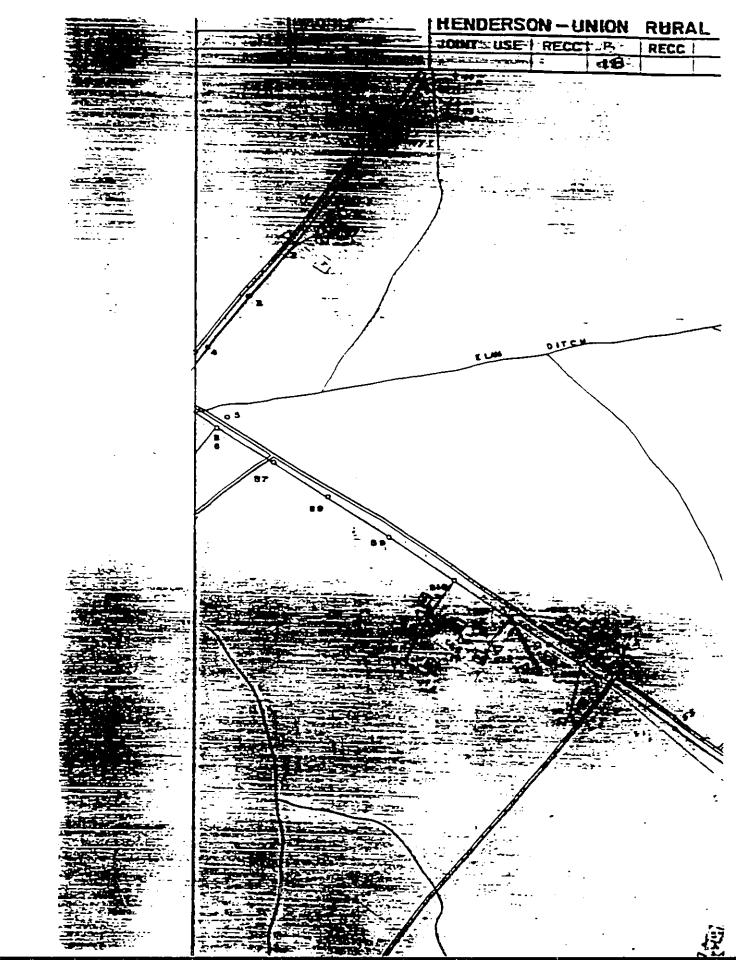
COPIES TO

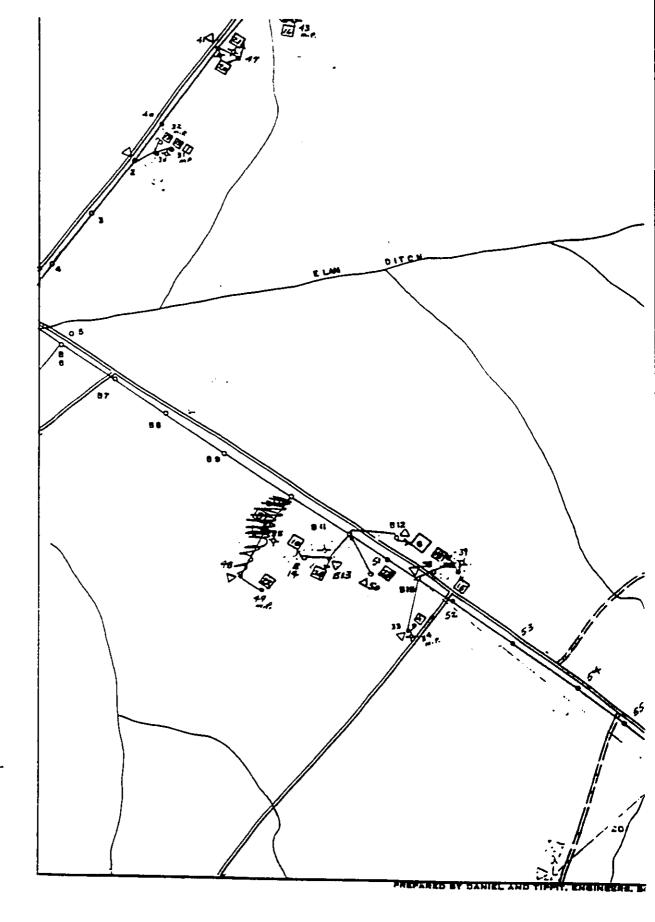
Clean-Up Notes From	DAYE	JOE NO.
PRIVATE AND PROPERTY OF THE PR	PROJECT	908504
Sometic work - (Losselbay)	LOCATION	<u> </u>
Sections Contract Work - HURECC (502) 826-3991 HE FOLLOWING WAS NOTED: 10-82	CONTRACTOR	OWNER
	WEATHER	TEMP. 3 as
		at at
_ 	BTIE TA THEEPHA	
	Sh:	5 45
THE FOLLOWING WAS NOTED:		- 07 -
10-82		
	<u> </u>	<u> </u>
POLE 5: SAME AS 92		
Pole 33: Stme HS 92		<u> </u>
Bb 6: what harrowand to Some	2) •
	1	
(2)		
Pole 14; more were 10' amo 15 th	Late (int : 100 m	DEFLIS
	······	
<u> </u>		
·		
• •		
	<u></u> -	
and the second s		
	·	

क्षितकारात क्षित्रकारणाह

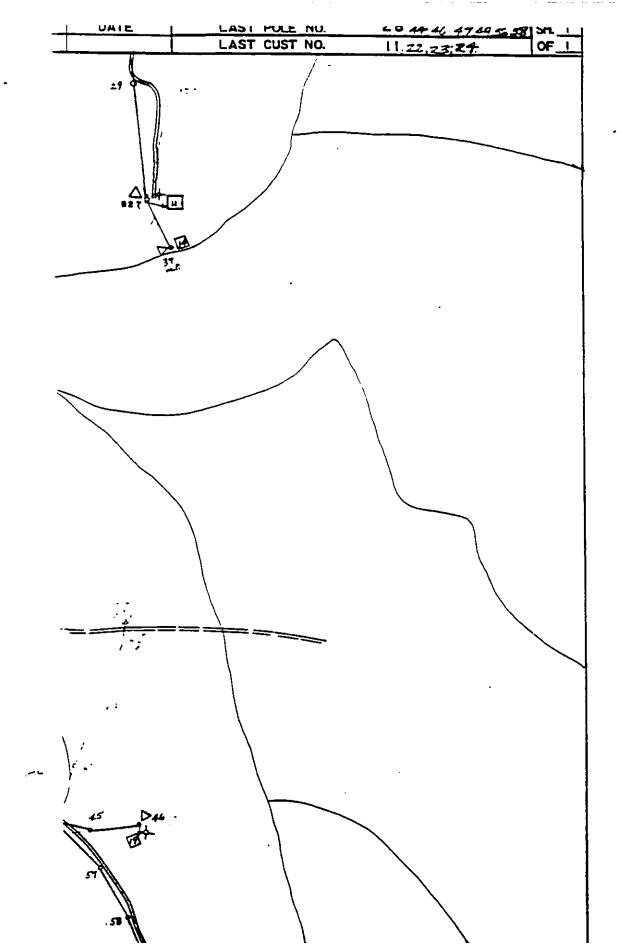
										CONS	UME	<u> </u>		DA.			
		CATION		1 =	- , ,		MAME			·	 				008	:33	L
	2-73	723	<u> </u>	422	<u> </u>	<u> </u>	40°	λ×.	27/	- KX	13	74	10ge	6			
عمت	11.00	154		 							 						
				+							 -						_
								===								_	=
													S	TA	KIN	G	
SLE	LINE	OFFLINE	PRL	WIRE	UNDE		SEC	WIRE	RA		POL	7 9	PRI	MAR	7	UNI	īŦ
	BACK	BACK	-	N	1	N	1			T N	 			≜ ÷	<u> - c</u>	7	_
	3144	SPAN	 `-	 	`		-	N	H	 -		N	Н.			-+	_
72		<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	Ì	1	<u> </u>	<u> </u>				1	
311				1					T			7				$\overline{}$	
7			Pat,	2.47/		 	├		┼		10.4	!		{	A-4	' Y	4
0		225	<u> </u>	AC5R			<u> </u>		<u>1</u>	}	<u>L</u>	35.5	L	_		<u></u>	٧/
							1	[\	Ţ -				\Box		\Box	
		 	 				 		╅┯┷	╅┈	 	 -	 -	-+		-+	_
		 	 	 		<u> </u>	 	<u> </u>	 		 	<u> </u>	<u> </u>				
_ [1	1	}		}	1	1	1	1	1	1) · ·	1		1	
									1	1		1		-+		寸	_
		1	1	1	<u></u>	1		-	 		 	 	 			_	
_		1	1	1	}			}		1	1	1	ì)			
								$\overline{}$	1							_	_
	 -	 	+				 	{	╅—-		 	-	├			-+	
!		<u> </u>				<u> </u>	<u> </u>				1	1	<u>L</u>				_
			1		{							1				T	
		 	+	+	 	+	+	+-	+		╅───	┼──	┼──	 {		-+	_
		 	 	+	<u> </u>		 	 	 		 	 	ļ	1			<u>. </u>
_ 1		1	_[ļ	1	1	1	1	1	1	}	}	}	-		- {	Ī
		1		1					T	_	1	1	1	_		7	_
		 	 	+	} -	┼	+	+-	╅		 	┼	 				H
		 _	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	1	1			}	L
1	1					1											Г
 -j	 	+	 		 	+	+	+	 -		 	+	+				H
	1		↓	1	!	-	 	<u> </u>		_1_	1	<u> </u>	<u>l</u>]	
	ļ			1	_			(\			1				7	Γ
		1	1	1	1	 -	 	+	 		 	+	 			 {	
	 	+	+	+	}			+	+		 	┦——	 			_	_
}	ţ	1	1	Į	1	1	1	1	1	1	1	1	Į.	1	į	١	l
	TIKU	S IMS1	ra i i				UNIT		ETIR			-					=
MIT	QUANT			OUANTI		17 4					_ _				INO:		-
55	/	··· + ···	~"		1 1 0 8	11 0	ven (I)	<u> </u>	NIT	QUANT	MA	LOCA	пон	۔ ا		1	١.
45-/	/													- -	RH	4	╬
4-5	/								_					十	╫	+	H
	Z	$\neg \vdash$	+		_	_		\dashv						+	╁┼		H
								\dashv	_					\dashv	 	T	t
1.2													 	十	 	1	T
9-15	/													十	\sqcap	\top	٢
2-//														7		T	T
3./	/	, 												工			Ι
स्बर	450			 -											\coprod	$oxed{\mathbb{L}}$	Γ
								$\perp \Gamma$							\coprod	$oldsymbol{\mathbb{L}}$	Ι
	LINE	EXIST	ING:	PHAS	NG_		, WI	RE S	HZE .			TYPE V	TIRE .				
MAIN																_	_
		PROPO	SED:	PHASE	NG		, WI	RE :				TYPE 1				=	_



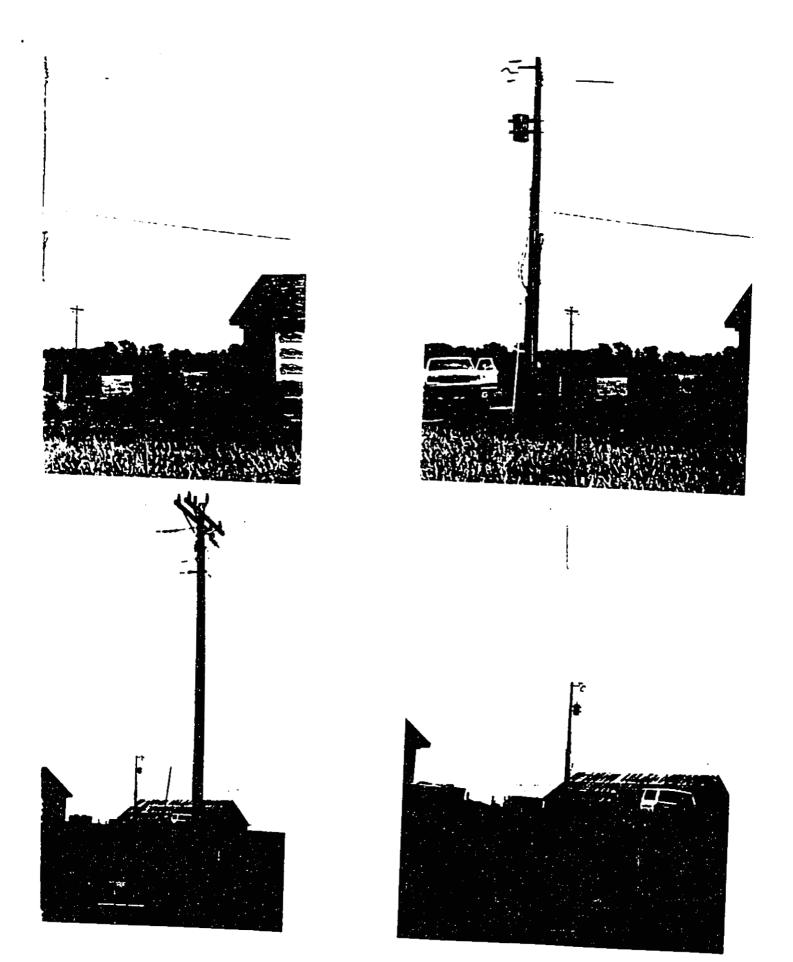




. مس

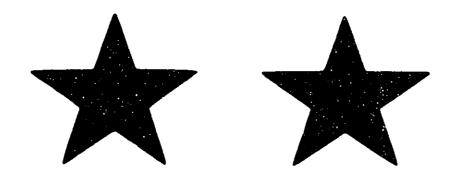


FIELD PHOTOGRAPHS





CORRECTION



PRECEDING IMAGE HAS BEEN REFILMED TO ASSURE LEGIBILITY OR TO CORRECT A POSSIBLE ERROR

